

Docket No. 55573 (71526)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Mishina, et al.
SERIAL NO.: 09/786,309 GROUP: 1635
FILED: June 6, 2001 EXAMINER: Nguyen, L
FOR: HIGHLY EFFICIENT MUTAGENESIS METHOD WITH THE USE OF
PSORALEN DERIVATIVES

Honorable Commissioner of Patents and Trademarks
Washington, DC 20231

Sir:

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CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted by facsimile to Group 1600 of the U.S. Patent & Trademark Office by facsimile number 703-872-9306 on December 29, 2001.

By: John B. Alexander

John B. Alexander, Ph.D.

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AMENDMENT

In response to the Office Action issued on August 29, 2001, Applicants request that the above-identified application be amended as follows.

IN THE CLAIMS

Please add new claims 8-22 as follows:

- Sub B1*
A2
8. (new) A mutagenesis method of a gene of a vertebrate animal, comprising the steps of:
- a) treating a germ cell of the vertebrate animal with a psoralen derivative;
 - b) irradiating the germ cell with a high energy beam; and
 - c) subjecting the irradiated germ cell to artificial fertilization to induce mutagenesis in an embryo.
9. (new) A method according to claim 8, wherein the germ cell is sperm.